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P.O. BOX 506, Merrifield, VA 22116, U.S.A.

TEL: +886-2-8923-7350 FAX: +886-2-2929-5950 e-mail: winstonhsu@naipo.com.tw

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APR 26 2004

**FAX TO: ART UNIT: 2839**

**Tel: (703) 306-3329**

**Fax: (703) 872-9318**

**FROM: Winston Hsu, PATENT AGENT, REG. NO. : 41,526**

**SERIAL NO.: 10/064,215**

**ATTORNEY DOCKET NO.: VIAP0029USA**

**SUBJECT: INFORMATION DISCLOSURE STATEMENT**

**TOTAL PAGES: 12 PAGES (INCLUDING COVER PAGE)**

**Winston Hsu 2004/04/26**

**VIAP0029USA0\_D1\_1**

**OFFICIAL****PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Jyh-Fong Lin,  
Hsin-Chieh Lin,  
Yi-Bin Hsieh

Filing Date: 06/21/2002

Art Unit: 2839

Application Number: 10/064,215

Docket No.: VIAP0029USA

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**Title: CLOCK AND DATA RECOVERY CIRCUIT AND RELATED METHODS**

**To: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**Subject: Information disclosure statement Under 37C.F.R. § 1.56  
and 37C.F.R. § 1.97(b).**

**Dear Sir/Madam:**

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 C.F.R. § 1.56. Applicants wish to make of record the documents listed on the accompanying form PTO/SB/08. It is respectfully requested that the Examiner initials the cited reference on the form and that it be made of record in the application and that a copy of the initialed form be sent to Applicants with the next communication from the Examiner.

Since the information disclosure statement is filed before the mailing of a first Office action on the merits, the requirement set forth in § 1.97(b) is satisfied. The cited article contained in the information disclosure statement was cited in communications from the State Intellectual Property Office of the PROC (SIPO) on Jan. 9, 2004. Applicants sincerely hope that the examiner can consider the items contained in the information disclosure statement.

According to the requirement set forth in 37C.F.R. §1.98 and M.P.E.P. 609 (8<sup>th</sup> edition, Aug. 2001), the applicant is submitting a copy of the reference cited by the SIPO ("A Clock and Data Recovery Circuit for 10-Mb/s and 100-Mb/s Ethernet", WANG Ruo-peng, LI Shu-guang, ZHENG Zeng-yu, State Key Laboratory of ASIC and Systems, Fudan University, Shanghai 200433, P. R. China, Chinese Publication No. 1004-3365(2002)04-0308-04) and a concise explanation of the relevance in this application hereinafter.

As disclosed in the cited article, a combination of a charge pump together with a resistor R and two capacitors C1 and C2 shown in Fig.5 is illustrated, and related operation of the data recovery circuit is described. Referring to Fig.5 of the cited art, the combination of a charge pump together with a resistor R and two capacitors C1 and C2 functions as a combination of the charge pump 20 and a filter 24 shown in Fig.1 of the present application.

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Claim 1 of the present application is repeated here for reference:

"1. A data recovery circuit for generating an output signal that is synchronized with an input signal; the data recovery circuit comprising:

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a charge pump for generating a charging current according to a phase difference between the input signal and the output signal;

a first filter electrically connected to the charge pump for generating an output voltage corresponding to the charging current;

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an oscillator for adjusting a phase or frequency of the output signal according to a voltage;

a switch circuit electrically connected between the first filter and the oscillator for controlling the electrical connection between the first filter and the oscillator; and

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a second filter electrically connected between the switch circuit and the oscillator for adjusting the output voltage of the first filter;

wherein when the charge pump is operating, the switch circuit disconnects the first filter from the oscillator, and when the charge pump stops operating, the switch circuit connects the first filter and the oscillator such that the oscillator adjusts the

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frequency or phase of the output signal according to the output voltage of the first filter.”

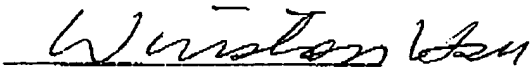
5 Compared with the cited art, claim 1 of the present application discloses  
a data recovery circuit 30 having a switch circuit 48, wherein when the  
charge pump 40 is operating, the switch circuit 48 disconnects the first  
filter 44 from the oscillator 46, and when the charge pump 40 stops  
operating, the switch circuit 48 connects the first filter 44 and the  
oscillator 46. However, the cited art fails to teach or disclose a first filter and  
10 a switch circuit used for disconnecting the first filter from an oscillator.

Since claim 1 of the present application is substantially different from  
the cited art, claims 2-3 dependent on claim 1 are sure to be different from the  
cited art. In addition, claim 4 is a driving method corresponding to the data  
15 recovery circuit of claim 1. Therefore, claim 4 of the present application is  
also different from the cited art. Claim 5 is dependent on claim 4, and it is  
substantially different from the cited art, too.

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Respectfully Submitted,

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Winston Hsu, Patent Agent No. 41,526  
P.O. Box 506  
Merrifield, VA 22116  
U.S.A.

Date:



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e-mail: winstonhsu@naipo.com.tw

(Please contact me by e-mail if you need a telephone  
communication and I will return your call promptly.)



PTO/SB/97 (08-00)  
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APPLICATION NUMBER: 10/064,215

PAPERS INCLUDED:

(1) Transmittal Form	1 PAGE
(2) Fee Transmittal	1 PAGE
(3) Information Disclosure Statement	8 PAGES

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PTO/SB/21 (08-03)

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/084,215	
	Filing Date	06/21/2002	
	First Named Inventor	Jyh-Fong Lin	
	Art Unit	2839	
	Examiner Name		
Total Number of Pages in This Submission	10	Attorney Docket Number	VIAF0029USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
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<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	<i>Winston Hsu</i>
Date	4/26/2004

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
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**FEE TRANSMITTAL**  
**for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ ) 0.00**Complete if Known**

Application Number	10/064,215
Filing Date	06/21/2002
First Named Inventor	Jyh-Fong Lin
Examiner Name	
Art Unit	2839
Attorney Docket No.	VIAP0029USA

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number	50-0801
Deposit Account Name	North America International Patent Office

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

**SUBTOTAL (1)** (\$ ) 0.00**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent Claims	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** (\$ ) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ ) 0.00**SUBMITTED BY**

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature	<i>Winston Hsu</i>	Date	6/26/2004		

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